

Careers in Research: Translating Basic Research into Society

Presented by IUJUR

Kevin Russell



***Cartographic Analyst and
Data Scientist***
*Indiana Geological and
Water Survey*

As a data scientist, I use my extensive geospatial and multidisciplinary experience to identify new opportunities to improve the discoverability, accessibility, interoperability, and reusability of data practices. Good data management plays a vital role in fostering knowledge discovery and new insights, in addition to supporting future knowledge and data integration for the reuse of data and methods by our scientists and the broader community. In my role, I create algorithms and tools to improve the collection, wrangling, processing, post-processing, and visualization of geospatial data.

Dr. Jonathan Dilger



***Director of Research
Naval Surface Warfare
Center (NSWC) Crane
Division***

Dr. Jonathan Dilger serves as Director of Research at the Naval Surface Warfare Center (NSWC), Crane Division, with responsibilities to liaise between technical experts and administration to guide research and development via programs to educate, fund, and staff critical science and technology applications towards command mission area directives. As a public servant for 16 years, his experiences include support of anti-terrorism force protection initiatives to protect Naval forces and assets against toxic chemical, biological, and explosive threats. He was recently awarded the 2016 Dr. Bernard E. Douda Young Scientist Award from the International Pyrotechnics Society for the development of new gas-phase detection techniques to determine energetic reaction byproducts that are occupationally or environmentally hazardous. Dr. Dilger received his MBA from the Miller College of Business at Ball State University and his Ph.D. from the Department of Chemistry at Indiana University.

Sarina Rodriguez Rajput



Quality Control Biologist
Eli Lilly and Co.

Sarina Rodriguez Rajput graduated from IU in 2016 with degrees in Biology and Neuroscience. During her time at IU, she performed undergraduate research in the Walczak lab, where she worked to purify and crystallize derivatives of the protein MCAK, and successfully defended a thesis on the topic. In addition to undergraduate research, Sarina was also president of the student organization STEM Outreach, where she collaborated with local Bloomington schools to create an educational and hands-on after-school program to promote an interest in STEM in children grades 1st – 6th.

Following graduation, Sarina accepted a full-time position at Eli Lilly and Company in Indianapolis, where she works as a Quality Control Biologist supporting insulin manufacturing. In this role, Sarina runs a variety of biological assays, including ELISA, BCA and SDS-PAGE gels, and has participated in method development and project management roles. She is also involved in IU campus recruiting for Lilly, and is excited to help her fellow IU students reach their scientific potential.